Serial No. 10/734,429

AMENDMENT TO THE CLAIMS

Please replace the currently pending claims with the following:

- 1. (Original) A thin-film transistor array of pixels comprising:
- a first thin-film transistor including a channel, the channel defined by a region between a first electrode and a second electrode, the channel having a defined length and width;
- a pixel addressed by the first thin-film transistor, the pixel having two pixel dimensions including a pixel width and a pixel length, the channel width longer than the shorter of the two pixel dimensions.
- 2. (Original) The thin-film transistor array of claim 1 wherein the ratio of the channel width to the channel length exceeds 5.
- 3. (Original) The thin film transistor array of claim 1 wherein the pixel width is equal to the pixel length.
- 4. (Original) The thin film transistor array of claim 1 wherein the channel includes at least one bend.
- 5. (Original) The thin film transistor array of claim 1 wherein the channel includes at least two bends such that a section of an electrode is surrounded on three sides by the channel in a U configuration.
- 6. (Withdrawn) The thin film transistor array of claim 1 wherein the channel completely surrounds one electrode.
- 7. (Original) The thin-film transistor array of claim 1 wherein the semiconductor used in the first thin-film transistor is an organic semiconductor.

Serial No. 10/734,429

- 8. (Original) The thin-film transistor array of claim 1 wherein the semiconductor used in the first thin-film transistor is a polymeric semiconductor.
- 9. (Withdrawn) The thin-film transistor array of claim 1 wherein the semiconductor is a continuous film over the array.
- 10. (Original) The thin film transistor array of claim 5 wherein the electrode is the drain electrode.
- 11. (Original) The thin-film transistor array of claim 1 wherein the pixel is backlit liquid crystal material.
- 12. (Original) The thin-film transistor array of claim 1 further comprising: a gate line coupled to a gate electrode of the first thin film transistor; and, a second thin film transistor including a corresponding gate electrode coupled to the gate line.
- 13. (Original) The thin film transistor array of claim 1 wherein the channel surrounds a drain electrode.
- 14. (Original) The thin film transistor array of claim 1 wherein the channel includes a first side and a second side, the first side of the channel coupled to the first electrode, the second side of the channel coupled to the second electrode.
- 15. (Original) The thin film transistor array of claim 1 wherein the first electrode is a drain and the second electrode is a source.
- 16. (Original) The thin film transistor of claim 14 wherein the channel includes a top surface, the top surface couples to a third electrode.

the second pixel.

Serial No. 10/734,429

- 17. (Original) The thin film transistor of claim 16 wherein the third electrode is a gate.
- 18. (Withdrawn) The thin-film transistor array of claim 1 wherein the channel completely surrounds a source electrode.
 - (Original) The thin-film transistor array of claim 15 further comprising:
 a first data line coupled to a source electrode of the first thin film transistor.
- 20. (Original) The thin-film transistor array of claim 19 further comprising: a second thin film transistor to address a second pixel, the first data line coupled to a source electrode of the second thin film transistor.
- 21. (Original) The thin film transistor array of claim 20 further comprising:

 a second pixel addressed by the second thin film transistor, the second pixel having two dimensions including a second pixel length and a second pixel width, a channel width of the second thin film transistor greater than the smallest dimension of
- 22. (Previously presented) The thin-film transistor array of claim 1 wherein the mobility of a semiconductor used to form the thin film transistor is below 0.5 cm²/Volt second.
- 23. (Original) The thin-film transistor array of claim 1 further comprising: a first gate line coupled to a gate electrode of the first thin-film transistor; a second gate line coupled to a gate of a second thin-film transistor, the second-thin film transistor coupled to a second pixel; and,
- a third gate line coupled to a gate electrode of a third thin-film transistor, the third-thin film transistor coupled to a third pixel.

Serial No. 10/734,429

- 24. (Original) The thin-film transistor array of claim 23 further comprising:

 a drive circuit coupled to corresponding gate lines of each thin-film transistor, the drive circuit to switch each thin-film transistor to create a pattern in a display.
- 25. (Original) The thin-film transistor array of claim 23 further comprising:
 a sensing circuit coupled to each gate line to sense the output of each thinfilm transistor in a sensor system.
- 26. (Original) The thin film transistor array of claim 1 wherein the channel width to length ratio exceeds 50.
 - 27. (Cancelled)
 - 28. (Cancelled)
 - 29. (Cancelled)
 - 30. (Cancelled)
 - 31. (Cancelled)
 - 32. (Cancelled)